

\*\*\*\*\*  
\*\*\*\*\*  
CALPOST Version 6.221      Level 080724  
\*\*\*\*\*  
\*\*\*\*\*

Internal Coordinate Transformations by --- COORDLIB Version: 1.99 Level: 070921

Run Title:  
Cleco, Teche Power Station  
CANEY CREEK WILDERNESS AREA CALPOST 2001  
VISIBILITY METHOD 8

---

INPUT GROUP: 1 -- General run control parameters

---

Option to run all periods found  
in the met. file(s) (METRUN)      Default: 0 ! METRUN = 1 !

METRUN = 0 - Run period explicitly defined below  
METRUN = 1 - Run all periods in CALPUFF data file(s)

Starting date: Year (ISYR) -- No default !ISYR = 2001 !  
Month (ISMO) -- No default !ISMO = 1 !  
Day (ISDY) -- No default !ISDY = 1 !  
Starting time: Hour (ISHR) -- No default !ISHR = 0 !  
Minute (ISMIN) -- No default !ISMIN = 0 !  
Second (ISSEC) -- No default !ISSEC = 0 !

Ending date: Year (IEYR) -- No default !IEYR = 2001 !  
Month (IEMO) -- No default !IEMO = 12 !  
Day (IEDY) -- No default !IEDY = 31 !  
Ending time: Hour (IEHR) -- No default !IEHR = 0 !  
Minute (IEMIN) -- No default !IEMIN = 0 !  
Second (IESEC) -- No default !IESEC = 0 !

(These are only used if METRUN = 0)

All times are in the base time zone of the CALPUFF simulation.  
CALPUFF Dataset Version 2.1 contains the zone, but earlier versions  
do not, and the zone must be specified here. The zone is the  
number of hours that must be ADDED to the time to obtain UTC (or GMT).  
Identify the Base Time Zone for the CALPUFF simulation  
(BTZONE) -- No default !BTZONE = 6.0 !

Process every period of data?  
(NREP) -- Default: 1 !NREP = 1 !  
(1 = every period processed,  
2 = every 2nd period processed,

5 = every 5th period processed, etc.)

## Species & Concentration/Deposition Information

---

Species to process (ASPEC) -- No default ! ASPEC = VISIB !  
(ASPEC = VISIB for visibility processing)

Layer/deposition code (ILAYER) -- Default: 1 ! ILAYER = 1 !  
'1' for CALPUFF concentrations,  
'-1' for dry deposition fluxes,  
'-2' for wet deposition fluxes,  
'-3' for wet+dry deposition fluxes.

Scaling factors of the form: -- Defaults: ! A = 0.0 !  
 $X(\text{new}) = X(\text{old}) * A + B$       A = 0.0 ! B = 0.0 !  
(NOT applied if A = B = 0.0)      B = 0.0

Add Hourly Background Concentrations/Fluxes?  
(LBACK) -- Default: F ! LBACK = F !

Source of NO2 when ASPEC=NO2 (above) or LVNO2=T (Group 2) may be from CALPUFF NO2 concentrations OR from a fraction of CALPUFF NOx concentrations. Specify the fraction of NOx that is treated as NO2 either as a constant or as a table of fractions that depend on the magnitude of the NOx concentration:

(NO2CALC) -- Default: 1 ! NO2CALC = 1 !  
0 = Use NO2 directly (NO2 must be in file)  
1 = Specify a single NO2/NOx ratio (RNO2NOX)  
2 = Specify a table NO2/NOx ratios (TNO2NOX)  
(NOTE: Scaling Factors must NOT be used with NO2CALC=2)

Single NO2/NOx ratio (0.0 to 1.0) for treating some or all NOx as NO2, where [NO2] = [NOX] \* RNO2NOX  
(used only if NO2CALC = 1)  
(RNO2NOX) -- Default: 1.0 ! RNO2NOX = 1.0 !

Table of NO2/NOx ratios that vary with NOx concentration.  
Provide 14 NOx concentrations (ug/m\*\*3) and the corresponding NO2/NOx ratio, with NOx increasing in magnitude. The ratio used for a particular NOx concentration is interpolated from the values provided in the table. The ratio for the smallest tabulated NOx concentration (the first) is used for all NOx concentrations less than the smallest tabulated value, and the ratio for the largest tabulated NOx concentration (the last) is used for all NOx concentrations greater than the largest tabulated value.  
(used only if NO2CALC = 2)

NOx concentration(ug / m3)  
(CNOX) -- No default  
! CNOX = 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0,  
8.0, 9.0, 10.0, 11.0, 12.0, 13.0, 14.0 !

NO2/NOx ratio for each NOx concentration:  
(TNO2NOX) -- No default

```
! TNO2NOX = 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0,  
    1.0, 1.0, 1.0, 1.0, 1.0, 1.0 !
```

#### Source information

---

Option to process source contributions:

- 0 = Process only total reported contributions
  - 1 = Sum all individual source contributions and process
  - 2 = Run in TRACEBACK mode to identify source contributions at a SINGLE receptor
- (MSOURCE) -- Default: 0 ! MSOURCE = 0 !

#### Plume Model Output Processing Options

---

Output from models other than CALPUFF and CALGRID can be written in the CONC.DAT format and processed by CALPOST. Plume models such as AERMOD typically do not treat CALM hours, and do not include such hours in multiple-hour averages, with specific rules about how many calm hours can be removed from an average. This treatment is known as CALM PROCESSING. Calm periods are identified from wind speeds in the meteorological data file for the application, which must be identified in Input Group 0 as the single-point meteorological data file MET1DAT.

- 0 = Option is not used for CALPUFF/CALGRID output files
  - 1 = Apply CALM processing procedures to multiple-hour averages
- (MCALMPRO) -- Default: 0 ! MCALMPRO = 0 !

#### Format of Single-point Met File

- 1 = AERMOD/AERMET SURFACE file
- (MET1FMT) -- Default: 1 ! MET1FMT = 1 !

#### Receptor information

---

Gridded receptors processed? (LG) -- Default: F ! LG = F !

Discrete receptors processed? (LD) -- Default: F ! LD = T !

CTSG Complex terrain receptors processed?

(LCT) -- Default: F ! LCT = F !

--Report results by DISCRETE receptor RING?

(only used when LD = T) (LDRING) -- Default: F ! LDRING = F !

--Select range of DISCRETE receptors (only used when LD = T):

Select ALL DISCRETE receptors by setting NDRECP flag to -1;

OR

Select SPECIFIC DISCRETE receptors by entering a flag (0,1) for each

0 = discrete receptor not processed

1 = discrete receptor processed

using repeated value notation to select blocks of receptors:

23\*1, 15\*0, 12\*1

Flag for all receptors after the last one assigned is set to 0

(NDRECP) -- Default: -1  
! NDRECP = 80\*1, 40\*0!

--Select range of GRIDDED receptors (only used when LG = T):

X index of LL corner (IBGRID) -- Default: -1 ! IBGRID = -1 !  
(-1 OR 1 <= IBGRID <= NX)

Y index of LL corner (JBGRID) -- Default: -1 ! JBGRID = -1 !  
(-1 OR 1 <= JBGRID <= NY)

X index of UR corner (IEGRID) -- Default: -1 ! IEGRID = -1 !  
(-1 OR 1 <= IEGRID <= NX)

Y index of UR corner (JEGRID) -- Default: -1 ! JEGRID = -1 !  
(-1 OR 1 <= JEGRID <= NY)

Note: Entire grid is processed if IBGRID=JBGRID=IEGRID=JEGRID=-1

--Specific gridded receptors can also be excluded from CALPOST processing by filling a processing grid array with 0s and 1s. If the processing flag for receptor index (i,j) is 1 (ON), that receptor will be processed if it lies within the range delineated by IBGRID, JBGRID,IEGRID,JEGRID and if LG=T. If it is 0 (OFF), it will not be processed in the run. By default, all array values are set to 1 (ON).

Number of gridded receptor rows provided in Subgroup (1a) to identify specific gridded receptors to process  
(NGONOFF) -- Default: 0 ! NGONOFF = 0 !

!END!

---

Subgroup (1a) -- Specific gridded receptors included/excluded

---

Specific gridded receptors are excluded from CALPOST processing by filling a processing grid array with 0s and 1s. A total of NGONOFF lines are read here. Each line corresponds to one 'row' in the sampling grid, starting with the NORTHERNMOST row that contains receptors that you wish to exclude, and finishing with row 1 to the SOUTH (no intervening rows may be skipped). Within a row, each receptor position is assigned either a 0 or 1, starting with the westernmost receptor.

0 = gridded receptor not processed  
1 = gridded receptor processed

Repeated value notation may be used to select blocks of receptors:  
23\*1, 15\*0, 12\*1

Because all values are initially set to 1, any receptors north of the first row entered, or east of the last value provided in a row, remain ON.

(NGXRECP) -- Default: 1

---

INPUT GROUP: 2 -- Visibility Parameters (ASPEC = VISIB)

---

Test visibility options specified to see  
if they conform to FLAG 2008 configuration?

(MVISCHECK) -- Default: 1 ! MVISCHECK = 1 !

0 = NO checks are made

1 = Technical options must conform to FLAG 2008 visibility guidance

ASPEC = VISIB

LVNO2 = T

NO2CALC = 1

RNO2NOX = 1.0

MVISBK = 8

M8\_MODE = 5

Some of the data entered for use with the FLAG 2008 configuration  
are specific to the Class I area being evaluated. These values can  
be checked within the CALPOST user interface when the name of the  
Class I area is provided.

Name of Class I Area (used for QA purposes only)

(AREANAME) -- Default: User ! AREANAME = CACR !

Particle growth curve f(RH) for hygroscopic species

(MFRH) -- Default: 4 ! MFRH = 4 !

1 = IWAQM (1998) f(RH) curve (originally used with MVISBK=1)

2 = FLAG (2000) f(RH) tabulation

3 = EPA (2003) f(RH) tabulation

4 = IMPROVE (2006) f(RH) tabulations for sea salt, and for small and  
large SULFATE and NITRATE particles;

Used in Visibility Method 8 (MVISBK = 8 with M8\_MODE = 1, 2, or 3)

Maximum relative humidity (%) used in particle growth curve

(RHMAX) -- Default: 98 ! RHMAX = 95 !

Modeled species to be included in computing the light extinction

Include SULFATE? (LVS04) -- Default: T ! LVS04 = T !

Include NITRATE? (LVNO3) -- Default: T ! LVNO3 = T !

Include ORGANIC CARBON? (LVOC) -- Default: T ! LVOC = T !

Include COARSE PARTICLES? (LVMPC) -- Default: T ! LVMPC = T !

Include FINE PARTICLES? (LVMF) -- Default: T ! LVMF = T !

Include ELEMENTAL CARBON? (LVEC) -- Default: T ! LVEC = T !

Include NO<sub>2</sub> absorption? (LVNO2) -- Default: F ! LVNO2 = T !

With Visibility Method 8 -- Default: T

FLAG (2008)

And, when ranking for TOP-N, TOP-50, and Exceedance tables,

Include BACKGROUND? (LVBK) -- Default: T ! LVBK = T !

Species name used for particulates in MODEL.DAT file  
COARSE (SPECPMC) -- Default: PMC ! SPECPMC = PMC !  
FINE (SPECPMF) -- Default: PMF ! SPECPMF = PMF !

Extinction Efficiency (1/Mm per ug/m\*\*3)

---

MODELED particulate species:

PM COARSE (EEPNC) -- Default: 0.6 ! EEPNC = 0.6 !  
PM FINE (EEPNC) -- Default: 1.0 ! EEPNC = 1 !

BACKGROUND particulate species:

PM COARSE (EPMCBK) -- Default: 0.6 ! EPMCBK = 0.6 !

Other species:

AMMONIUM SULFATE (EESO4) -- Default: 3.0 ! EESO4 = 3 !  
AMMONIUM NITRATE (EENO3) -- Default: 3.0 ! EENO3 = 3 !  
ORGANIC CARBON (EEOC) -- Default: 4.0 ! EEOC = 4 !  
SOIL (EESOIL) -- Default: 1.0 ! EESOIL = 1 !  
ELEMENTAL CARBON (EEECC) -- Default: 10. ! EEECC = 10 !  
NO2 GAS (EENO2) -- Default: .1755 ! EENO2 = 0.1755 !

Visibility Method 8:

AMMONIUM SULFATE (EESO4S) Set Internally (small)  
AMMONIUM SULFATE (EESO4L) Set Internally (large)  
AMMONIUM NITRATE (EENO3S) Set Internally (small)  
AMMONIUM NITRATE (EENO3L) Set Internally (large)  
ORGANIC CARBON (EEOCS) Set Internally (small)  
ORGANIC CARBON (EEOCL) Set Internally (large)  
SEA SALT (EESALT) Set Internally

Background Extinction Computation

---

Method used for the 24h-average of percent change of light extinction:  
Hourly ratio of source light extinction / background light extinction  
is averaged? (LAVER) -- Default: F ! LAVER = F !

Method used for background light extinction

(MVISBK) -- Default: 8 ! MVISBK = 8 !  
FLAG (2008)

- 1 = Supply single light extinction and hygroscopic fraction
  - Hourly F(RH) adjustment applied to hygroscopic background and modeled sulfate and nitrate
- 2 = Background extinction from speciated PM concentrations (A)
  - Hourly F(RH) adjustment applied to observed and modeled sulfate and nitrate
  - F(RH) factor is capped at F(RHMAX)
- 3 = Background extinction from speciated PM concentrations (B)
  - Hourly F(RH) adjustment applied to observed and modeled sulfate and nitrate
  - Receptor-hour excluded if RH>RHMAX
  - Receptor-day excluded if fewer than 6 valid receptor-hours
- 4 = Read hourly transmissometer background extinction measurements
  - Hourly F(RH) adjustment applied to modeled sulfate and nitrate
  - Hour excluded if measurement invalid (missing, interference, or large RH)
  - Receptor-hour excluded if RH>RHMAX

- Receptor-day excluded if fewer than 6 valid receptor-hours
- 5 = Read hourly nephelometer background extinction measurements
- Rayleigh extinction value (BEXTRAY) added to measurement
  - Hourly F(RH) adjustment applied to modeled sulfate and nitrate
  - Hour excluded if measurement invalid (missing, interference, or large RH)
  - Receptor-hour excluded if RH>RHMAX
  - Receptor-day excluded if fewer than 6 valid receptor-hours
- 6 = Background extinction from speciated PM concentrations
- FLAG (2000) monthly RH adjustment factor applied to observed and modeled sulfate and nitrate
- 7 = Use observed weather or prognostic weather information for background extinction during weather events; otherwise, use Method 2
- Hourly F(RH) adjustment applied to modeled sulfate and nitrate
  - F(RH) factor is capped at F(RHMAX)
  - During observed weather events, compute Bext from visual range if using an observed weather data file, or
  - During prognostic weather events, use Bext from the prognostic weather file
  - Use Method 2 for hours without a weather event
- 8 = Background extinction from speciated PM concentrations using the IMPROVE (2006) variable extinction efficiency formulation (MFRH must be set to 4)
- Split between small and large particle concentrations of SULFATES, NITRATES, and ORGANICS is a function of concentration and different extinction efficiencies are used for each
  - Source-induced change in visibility includes the increase in extinction of the background aerosol due to the change in the extinction efficiency that now depends on total concentration.
  - Fsmall(RH) and Flarge(RH) adjustments for small and large particles are applied to observed and modeled sulfate and nitrate concentrations
  - Fsalt(RH) adjustment for sea salt is applied to background sea salt concentrations
  - F(RH) factors are capped at F(RHMAX)
  - RH for Fsmall(RH), Flarge(RH), and Fsalt(RH) may be obtained from hourly data as in Method 2 or from the FLAG monthly RH adjustment factor used for Method 6 where EPA F(RH) tabulation is used to infer RH, or monthly Fsmall, Flarge, and Fsalt RH adjustment factors can be directly entered.
  - Furthermore, a monthly RH factor may be applied to either hourly concentrations or daily concentrations to obtain the 24-hour extinction.

These choices are made using the M8\_MODE selection.

Additional inputs used for MVISBK = 1:

---

Background light extinction (1/Mm)  
 (BEXTBK) -- No default ! BEXTBK = 12 !  
 Percentage of particles affected by relative humidity  
 (RHFRC) -- No default ! RHFRC = 10 !

Additional inputs used for MVISBK = 6,8:

---

Extinction coefficients for hygroscopic species (modeled and background) are computed using a monthly RH adjustment factor

in place of an hourly RH factor (VISB.DAT file is NOT needed).  
Enter the 12 monthly factors here (RHFAC). Month 1 is January.

(RHFAC) -- No default ! RHFAC = 3.3, 3.0, 2.7, 2.8,  
3.2, 3.2, 3.0, 3.0,  
3.2, 3.2, 3.1, 3.3 !

Additional inputs used for MVISBK = 7:

-----  
The weather data file (DATSAV abbreviated space-delimited) that  
is identified as VSRN.DAT may contain data for more than one  
station. Identify the stations that are needed in the order in  
which they will be used to obtain valid weather and visual range.  
The first station that contains valid data for an hour will be  
used. Enter up to MXWSTA (set in PARAMS file) integer station IDs  
of up to 6 digits each as variable IDWSTA, and enter the corresponding  
time zone for each, as variable TZONE (= UTC-LST).

A prognostic weather data file with Bext for weather events may be used  
in place of the observed weather file. Identify this as the VSRN.DAT  
file and use a station ID of IDWSTA = 999999, and TZONE = 0.

NOTE: TZONE identifies the time zone used in the dataset. The  
DATSAV abbreviated space-delimited data usually are prepared  
with UTC time rather than local time, so TZONE is typically  
set to zero.

(IDWSTA) -- No default \* IDWSTA = 000000 \*  
(TZONE) -- No default \* TZONE = 0. \*

Additional inputs used for MVISBK = 2,3,6,7,8:

-----  
Background extinction coefficients are computed from monthly  
CONCENTRATIONS of ammonium sulfate (BKSO4), ammonium nitrate (BKNO3),  
coarse particulates (BKPMC), organic carbon (BKOC), soil (BKSOIL), and  
elemental carbon (BKEC). Month 1 is January.  
(ug/m\*\*3)

(BKSO4) -- No default ! BKSO4 = 0.23, 0.23, 0.23, 0.23,  
0.23, 0.23, 0.23,  
0.23, 0.23, 0.23 !  
(BKNO3) -- No default ! BKNO3 = 0.10, 0.10, 0.10, 0.10,  
0.10, 0.10, 0.10,  
0.10, 0.10, 0.10 !  
(BKPMC) -- No default ! BKPMC = 3.00, 3.00, 3.00, 3.00,  
3.00, 3.00, 3.00,  
3.00, 3.00, 3.00 !  
(BKOC) -- No default ! BKOC = 1.80, 1.80, 1.80, 1.80,  
1.80, 1.80, 1.80,  
1.80, 1.80, 1.80 !  
(BKSOIL) -- No default ! BKSOIL= 0.50, 0.50, 0.50, 0.50,  
0.50, 0.50, 0.50,  
0.50, 0.50, 0.50 !  
(BKEC) -- No default ! BKEC = 0.02, 0.02, 0.02, 0.02,  
0.02, 0.02, 0.02,  
0.02, 0.02, 0.02 !

Additional inputs used for MVISBK = 8:

Extinction coefficients for hygroscopic species (modeled and background) may be computed using hourly RH values and hourly modeled concentrations, or using monthly RH values inferred from the RHFAC adjustment factors and either hourly or daily modeled concentrations, or using monthly RHFSML, RHFLRG, and RHFSEA adjustment factors and either hourly or daily modeled concentrations.

(M8\_MODE) -- Default: 5 ! M8\_MODE= 5 !  
FLAG (2008)

- 1 = Use hourly RH values from VISB.DAT file with hourly modeled and monthly background concentrations.
- 2 = Use monthly RH from monthly RHFAC and EPA (2003) f(RH) tabulation with hourly modeled and monthly background concentrations.  
(VISB.DAT file is NOT needed).
- 3 = Use monthly RH from monthly RHFAC with EPA (2003) f(RH) tabulation with daily modeled and monthly background concentrations.  
(VISB.DAT file is NOT needed).
- 4 = Use monthly RHFSML, RHFLRG, and RHFSEA with hourly modeled and monthly background concentrations.  
(VISB.DAT file is NOT needed).
- 5 = Use monthly RHFSML, RHFLRG, and RHFSEA with daily modeled and monthly background concentrations.  
(VISB.DAT file is NOT needed).

Background extinction coefficients are computed from monthly CONCENTRATIONS of sea salt (BKSALT). Month 1 is January.  
(ug/m\*\*3)

(BKSALT) -- No default ! BKSALT= 0.03, 0.03, 0.03, 0.03,  
0.03, 0.03, 0.03, 0.03,  
0.03, 0.03, 0.03, 0.03 !

Extinction coefficients for hygroscopic species (modeled and background) can be computed using monthly RH adjustment factors in place of an hourly RH factor (VISB.DAT file is NOT needed).  
Enter the 12 monthly factors here (RHFSML,RHFLRG,RHFSEA).  
Month 1 is January. (Used if M8\_MODE = 4 or 5)

Small ammonium sulfate and ammonium nitrate particle sizes  
(RHFSML) -- No default ! RHFSML= 3.85, 3.44, 3.14, 3.24,  
3.66, 3.71, 3.49, 3.51,  
3.73, 3.72, 3.68, 3.88 !

Large ammonium sulfate and ammonium nitrate particle sizes  
(RHFLRG) -- No default ! RHFLRG= 2.77, 2.53, 2.37, 2.43,  
2.68, 2.71, 2.59, 2.60,  
2.71, 2.69, 2.67, 2.79 !

Sea salt particles  
(RHFSEA) -- No default ! RHFSEA= 3.90, 3.52, 3.31, 3.41,  
3.83, 3.88, 3.69, 3.68,

3.82, 3.76, 3.77, 3.93 !

Additional inputs used for MVISBK = 2,3,5,6,7,8:

Extinction due to Rayleigh scattering is added (1/Mm)  
(BEXTRAY) -- Default: 10.0 ! BEXTRAY = 11 !

!END!

-----  
INPUT GROUP: 3 -- Output options  
-----

Documentation

Documentation records contained in the header of the  
CALPUFF output file may be written to the list file.

Print documentation image?  
(LDOC) -- Default: F ! LDOC = F !

Output Units

-----  
Units for All Output (IPRTU) -- Default: 1 ! IPRTU = 3 !  
for for  
Concentration Deposition  
1 = g/m\*\*3 g/m\*\*2/s  
2 = mg/m\*\*3 mg/m\*\*2/s  
3 = ug/m\*\*3 ug/m\*\*2/s  
4 = ng/m\*\*3 ng/m\*\*2/s  
5 = Odour Units

Visibility: extinction expressed in 1/Mega-meters (IPRTU is ignored)

Averaging time(s) reported

-----  
1-pd averages (L1PD) -- Default: T ! L1PD = F !  
(pd = averaging period of model output)

1-hr averages (L1HR) -- Default: T ! L1HR = F !

3-hr averages (L3HR) -- Default: T ! L3HR = F !

24-hr averages (L24HR) -- Default: T ! L24HR = T !

Run-length averages (LRUNL) -- Default: T ! LRUNL = F !

User-specified averaging time in hours, minutes, seconds  
- results for this averaging time are reported if it is not zero

(NAVGH) -- Default: 0 ! NAVGH = 0 !  
(NAVGM) -- Default: 0 ! NAVGM = 0 !  
(NAVGS) -- Default: 0 ! NAVGS = 0 !

Types of tabulations reported

---

- 1) Visibility: daily visibility tabulations are always reported for the selected receptors when ASPEC = VISIB.  
In addition, any of the other tabulations listed below may be chosen to characterize the light extinction coefficients.  
[List file or Plot/Analysis File]
  
- 2) Top 50 table for each averaging time selected  
[List file only]  
(LT50) -- Default: T ! LT50 = F !
  
- 3) Top 'N' table for each averaging time selected  
[List file or Plot file]  
(LTOPN) -- Default: F ! LTOPN = F !
  - Number of 'Top-N' values at each receptor selected (NTOP must be <= 4)  
(NTOP) -- Default: 4 ! NTOP = 4 !
  - Specific ranks of 'Top-N' values reported (NTOP values must be entered)  
(ITOP(4) array) -- Default: ! ITOP = 1,2,3,4 !  
1,2,3,4
  
- 4) Threshold exceedance counts for each receptor and each averaging time selected  
[List file or Plot file]  
(LEXCD) -- Default: F ! LEXCD = F !
  - Identify the threshold for each averaging time by assigning a non-negative value (output units).
    - Default: -1.0
    - Threshold for 1-hr averages (THRESH1) ! THRESH1 = -1.0 !
    - Threshold for 3-hr averages (THRESH3) ! THRESH3 = -1.0 !
    - Threshold for 24-hr averages (THRESH24) ! THRESH24 = -1.0 !
    - Threshold for NAVG-hr averages (THRESHN) ! THRESHN = -1.0 !
  
  - Counts for the shortest averaging period selected can be tallied daily, and receptors that experience more than NCOUNT counts over any NDAY period will be reported. This type of exceedance violation output is triggered only if NDAY > 0.

Accumulation period(Days)  
(NDAY) -- Default: 0 ! NDAY = 0 !

Number of exceedances allowed  
(NCOUNT) -- Default: 1 ! NCOUNT = 1 !

## 5) Selected day table(s)

Echo Option -- Many records are written each averaging period selected and output is grouped by day  
[List file or Plot file]

(LECHO) -- Default: F ! LECHO = F !

Timeseries Option -- Averages at all selected receptors for each selected averaging period are written to timeseries files. Each file contains one averaging period, and all receptors are written to a single record each averaging time.

[TSERIES\_ASPEC\_ttHR\_CONC\_TSUNAM.DAT files]  
(LTIME) -- Default: F ! LTIME = F !

Peak Value Option -- Averages at all selected receptors for each selected averaging period are screened and the peak value each period is written to timeseries files.

Each file contains one averaging period.

[PEAKVAL\_ASPEC\_ttHR\_CONC\_TSUNAM.DAT files]  
(LPEAK) -- Default: F ! LPEAK = F !

-- Days selected for output

(IECHO(366)) -- Default: 366\*0  
! IECHO = 366\*0 !  
(366 values must be entered)

## Plot output options

---

Plot files can be created for the Top-N, Exceedance, and Echo tables selected above. Two formats for these files are available, DATA and GRID. In the DATA format, results at all receptors are listed along with the receptor location [x,y,val1,val2,...].

In the GRID format, results at only gridded receptors are written, using a compact representation. The gridded values are written in rows (x varies), starting with the most southern row of the grid.

The GRID format is given the .GRD extension, and includes headers compatible with the SURFER(R) plotting software.

A plotting and analysis file can also be created for the daily peak visibility summary output, in DATA format only.

Generate Plot file output in addition to writing tables to List file?

(LPLT) -- Default: F ! LPLT = F !

Use GRID format rather than DATA format, when available?

(LGRD) -- Default: F ! LGRD = F !

## Auxiliary Output Files (for subsequent analyses)

---

Visibility

A separate output file may be requested that contains the change in visibility at each selected receptor when ASPEC = VISIB. This file can be processed to construct visibility measures that are not available in CALPOST.

Output file with the visibility change at each receptor?  
(MDVIS) -- Default: 0 ! MDVIS = 1 !

- 0 = Do Not create file
- 1 = Create file of DAILY (24 hour) Delta-Deciview
- 2 = Create file of DAILY (24 hour) Extinction Change (%)
- 3 = Create file of HOURLY Delta-Deciview
- 4 = Create file of HOURLY Extinction Change (%)

#### Additional Debug Output

---

Output selected information to List file  
for debugging?  
(LDEBUG) -- Default: F ! LDEBUG = F !

Output hourly extinction information to REPORT.HRV?  
(Visibility Method 7)  
(LVEXTHR) -- Default: F ! LVEXTHR = F !

!END!

---

NOTICE: Starting year in control file sets the  
expected century for the simulation. All  
YY years are converted to YYYY years in  
the range: 1951 2050

---

```
*****  
*****  
CALPOST Version 6.221      Level 080724  
*****  
*****
```

#### CALPOST Control File Input Summary

---

Replace run data with data in Puff file 1=Y: 1  
Run starting date -- year: 2001  
month: 1  
day: 1  
Julian day: 0  
Time at start of run - hour(0-23): 0  
- minute: 0  
- second: 0

Run ending date -- year: 2001  
month: 12  
day: 31  
Julian day: 0  
Time at end of run - hour(0-23): 0  
- minute: 0  
- second: 0

Base time zone (Group 1): 6.0

Every period of data processed -- NREP = 1

### Species & Concentration/Deposition Information

Species: VISIB  
Layer of processed data: 1  
(>0=conc, -1=dry flux, -2=wet flux, -3=wet & dry flux)  
Multiplicative scaling factor: 0.0000E+00  
Additive scaling factor: 0.0000E+00  
Hourly background values used?: F

## SAMPLER option

Processing method: 0  
0= SAMPLER option not used  
1= Report total modeled impact (list file)  
2= TRACEBACK mode (DAT files)  
3= TRACEBACK mode with sampling factor (DAT files)

## Source information

Source contribution processing: 0  
0= No source contributions  
1= Contributions are summed  
2= TRACEBACK mode for 1 receptor  
3= Reported TOTAL is processed

## Receptor information

Gridded receptors processed?: F  
Discrete receptors processed?: T  
CTSG Complex terrain receptors processed?: F

### Discrete Receptors Processed

## Visibility Processing Selected

Visibility Options are Checked for FLAG 2008

## Class I Area: CACR

Extinction Computation includes:

SULFATES  
NITRATES  
NO2 GAS

Fraction CALPUFF NOx used as NO2 : 1.000

ORGANIC CARBON  
ELEMENTAL CARBON  
COARSE PARTICLES  
FINE PARTICLES  
BACKGROUND

Particle f(RH) growth curve(s) : IMPROVE (2006) Tables

Max. RH % for particle growth (%): 95.000

Species name for modeled particulates

coarse: PMC  
fine: PMF

Extinction Efficiency (1/Mm per ug/m\*\*3)

ammonium sulfate S: 2.2000  
ammonium sulfate L: 4.8000  
ammonium nitrate S: 2.4000  
ammonium nitrate L: 5.1000  
organic carbon S: 2.8000  
organic carbon L: 6.1000  
sea salt: 1.7000  
NO2 gas: 0.1755  
soil: 1.0000  
elemental carbon: 10.0000  
MODELED coarse PM: 0.6000  
MODELED fine PM: 1.0000  
BACKGRND coarse PM: 0.6000

Background Extinction Calculation Method 8

Method 8 Mode: 5  
(24-hr avg conc. with monthly F(RH) data)

Monthly RH factor for small particles:

1 .3850E+01  
2 .3440E+01  
3 .3140E+01  
4 .3240E+01  
5 .3660E+01  
6 .3710E+01  
7 .3490E+01  
8 .3510E+01  
9 .3730E+01  
10 .3720E+01  
11 .3680E+01  
12 .3880E+01

Monthly RH factor for large particles:

1 .2770E+01  
2 .2530E+01  
3 .2370E+01  
4 .2430E+01

5 .2680E+01  
6 .2710E+01  
7 .2590E+01  
8 .2600E+01  
9 .2710E+01  
10 .2690E+01  
11 .2670E+01  
12 .2790E+01

Monthly RH factor for sea salt:

1 .3900E+01  
2 .3520E+01  
3 .3310E+01  
4 .3410E+01  
5 .3830E+01  
6 .3880E+01  
7 .3690E+01  
8 .3680E+01  
9 .3820E+01  
10 .3760E+01  
11 .3770E+01  
12 .3930E+01

Rayleigh scattering extinction (1/Mm): 11.00

Monthly background conc. (ug/m\*\*3):

	(NH4)2SO4	(NH4)NO3	PM-C	OC	SOIL	EC	SEA SALT
1	.2300E+00	.1000E+00	.3000E+01	.1800E+01	.5000E+00	.2000E-01	.3000E-01
2	.2300E+00	.1000E+00	.3000E+01	.1800E+01	.5000E+00	.2000E-01	.3000E-01
3	.2300E+00	.1000E+00	.3000E+01	.1800E+01	.5000E+00	.2000E-01	.3000E-01
4	.2300E+00	.1000E+00	.3000E+01	.1800E+01	.5000E+00	.2000E-01	.3000E-01
5	.2300E+00	.1000E+00	.3000E+01	.1800E+01	.5000E+00	.2000E-01	.3000E-01
6	.2300E+00	.1000E+00	.3000E+01	.1800E+01	.5000E+00	.2000E-01	.3000E-01
7	.2300E+00	.1000E+00	.3000E+01	.1800E+01	.5000E+00	.2000E-01	.3000E-01
8	.2300E+00	.1000E+00	.3000E+01	.1800E+01	.5000E+00	.2000E-01	.3000E-01
9	.2300E+00	.1000E+00	.3000E+01	.1800E+01	.5000E+00	.2000E-01	.3000E-01
10	.2300E+00	.1000E+00	.3000E+01	.1800E+01	.5000E+00	.2000E-01	.3000E-01
11	.2300E+00	.1000E+00	.3000E+01	.1800E+01	.5000E+00	.2000E-01	.3000E-01
12	.2300E+00	.1000E+00	.3000E+01	.1800E+01	.5000E+00	.2000E-01	.3000E-01

Optional output file for visibility 1

Create file of DAILY (24 hour) Delta-Deciview

Output options

Units requested for output: (1/Mega-m)

Averaging time(s) selected

User-specified averaging time (hr:mm:ss): 0: 0: 0

1-pd averages: F

1-hr averages: F

3-hr averages: F

24-hr averages: T

User-specified averages: F  
Length of run averages: F

Output components selected

    Top-50: F  
    Top-N values at each receptor: F  
    Exceedance counts at each receptor: F  
    Output selected information for debugging: F  
    Echo tables for selected days: F  
    Time-series for selected days: F  
    Peak value Time-series for selected days: F

Plot file option

    Plot files created: F

MAPSPEC: Species Mapping

    Number of species-levels in file : 9  
    Number of species-levels processed: 10

Input ID	Processing ID	Name
1	1	SO2
2	2	SO4
3	3	NOX
4	4	HNO3
5	5	NO3
6	6	PMC
7	7	PMF
8	8	EC
9	9	SOA

Visibility Species

	Processing ID	Name
sulfate	2	SO4
no2gas	10	NO2
noxgas	3	NOX
nitrate	5	NO3
specpmf	7	PMF
specpmc	6	PMC
orgcarb	9	SOA
lmncarb	8	EC

#### IDENTIFICATION OF PROCESSED MODEL FILE -----

CALPUFF 5.8.4 130731

CLECO, TECHE  
ALM-step1  
Repartitioning of NO3/HNO3

Averaging time for values reported from model:  
1 HOUR

Number of averaging periods in file from model:

Chemical species names for each layer in model:

SO <sub>2</sub>	1
SO <sub>4</sub>	1
NOX	1
HNO <sub>3</sub>	1
NO <sub>3</sub>	1
PMC	1
PMF	1
EC	1
SOA	1

QA Information -- Internal Representation of Data

## **CONTENTS OF CONTROL FILE -----**

```
navg,ntop      = 0 4
navgh,navgm,navgs = 0 0 0
itop = 1 2 3 4
L[1,3,24]HR    = F F T
LNAVG, LRUNL   = F F
LT50, LTOPN, LEXCD = F F F
LECHO, LTIME, LPKAK = F F F
THRESH1        = -1.00000000
THRESH3        = -1.00000000
THRESH24       = -1.00000000
THRESHN        = -1.00000000
PLT, LGRD      = F F
MDVIS          = 1
LDEBUG          = F
LCTSG          = F
```

#### CONTENTS OF HEADER OF MODEL OUTPUT FILE -----

```
model : CALPUFF 5.8.4 130731
msyr,mjsday = 2000 366
mshr,mssec = 23 0
nsecdt (period) = 3600
xbtz = 6.00000000
mnper,nszout,mavgpd = 8752 9 1
xorigkm,yorigkm,nsssta = -951.547058 -1646.63708 0
ielmet,jelmet = 462 376
delx,dely,nz = 4.00000000 4.00000000 1
iastrar,iastop,jastar,jastop = 1 462 1 376
isastr,isastp,jsastr,jsastp = 1 462 1 376
(computed) ngx,ngy = 462 376
meshdn,npnts,nareas = 1 1 0
nlines,nvols = 0 0
ndrec,nctrec,LSGRID = 120 0 F
```

#### Discrete Receptors (n,x,y,z):

```
1 270.325867 -617.518921 365.000000
2 271.090393 -617.494019 365.000000
3 271.854797 -617.469116 368.000000
4 268.767273 -616.646362 411.000000
5 269.531677 -616.621704 462.000000
6 270.295959 -616.597046 431.000000
7 271.060364 -616.572144 518.000000
8 271.824768 -616.547241 487.000000
9 272.589050 -616.522339 396.000000
10 265.680481 -615.822632 518.000000
11 266.444763 -615.798218 523.000000
12 267.209045 -615.773682 548.000000
13 267.973328 -615.749146 579.000000
14 268.737610 -615.724487 547.000000
15 269.501892 -615.699829 538.000000
16 270.266174 -615.675049 640.000000
17 271.030334 -615.650269 608.000000
18 260.301697 -615.069458 335.000000
19 261.065857 -615.045532 431.000000
20 261.830139 -615.021606 457.000000
21 262.594299 -614.997559 414.000000
22 263.358459 -614.973511 426.000000
```

23 264.122742 -614.949341 426.000000  
24 264.886902 -614.924927 388.000000  
25 265.651062 -614.900635 388.000000  
26 266.415344 -614.876343 365.000000  
27 267.179504 -614.851807 386.000000  
28 267.943665 -614.827271 396.000000  
29 268.707825 -614.802612 426.000000  
30 269.471985 -614.777954 446.000000  
31 270.236267 -614.753174 441.000000  
32 271.000427 -614.728394 457.000000  
33 271.764587 -614.703491 465.000000  
34 272.528748 -614.678589 442.000000  
35 273.293030 -614.653442 426.000000  
36 260.272888 -614.147583 304.000000  
37 261.036926 -614.123657 304.000000  
38 261.801086 -614.099731 319.000000  
39 262.565247 -614.075684 334.000000  
40 263.329407 -614.051636 370.000000  
41 264.093567 -614.027344 405.000000  
42 264.857605 -614.003052 409.000000  
43 265.621765 -613.978760 450.000000  
44 266.385803 -613.954346 518.000000  
45 267.149963 -613.929932 609.000000  
46 267.914124 -613.905396 534.000000  
47 268.678162 -613.880737 517.000000  
48 269.442200 -613.856079 575.000000  
49 270.206360 -613.831299 600.000000  
50 270.970520 -613.806519 609.000000  
51 271.734558 -613.781616 609.000000  
52 272.498596 -613.756714 561.000000  
53 261.008118 -613.201782 335.000000  
54 261.772156 -613.177856 432.000000  
55 262.536194 -613.153809 487.000000  
56 263.300232 -613.129639 499.000000  
57 264.064270 -613.105469 514.000000  
58 264.828308 -613.081177 442.000000  
59 265.592346 -613.056885 439.000000  
60 266.356384 -613.032471 395.000000  
61 267.120422 -613.007935 400.000000  
62 267.884460 -612.983521 426.000000  
63 268.648499 -612.958862 487.000000  
64 269.412415 -612.934204 548.000000  
65 270.176453 -612.909424 548.000000  
66 270.940491 -612.884644 548.000000  
67 271.704529 -612.859741 535.000000  
68 261.743225 -612.255981 304.000000  
69 262.507141 -612.231812 334.000000  
70 263.271179 -612.207764 396.000000  
71 264.035095 -612.183594 457.000000  
72 264.799011 -612.159302 457.000000  
73 265.563049 -612.135010 426.000000  
74 266.326965 -612.110596 411.000000  
75 267.090881 -612.086182 406.000000  
76 267.854797 -612.061646 396.000000  
77 268.618713 -612.036987 401.000000  
78 269.382629 -612.012329 397.000000

79 261.714294 -611.334106 322.000000  
80 262.478088 -611.309937 334.000000  
81 777.710144 -1118.01306 0.00000000E+00  
82 779.970764 -1115.93896 0.00000000E+00  
83 780.696716 -1114.93750 0.00000000E+00  
84 781.422424 -1113.93604 0.00000000E+00  
85 785.606995 -1106.06689 0.00000000E+00  
86 789.226868 -1101.05811 0.00000000E+00  
87 789.783264 -1098.19727 0.00000000E+00  
88 791.229431 -1096.19348 1.00000000  
89 791.145813 -1095.26416 1.00000000  
90 791.784729 -1093.33289 1.00000000  
91 791.700989 -1092.40356 1.00000000  
92 792.339539 -1090.47253 1.00000000  
93 792.255920 -1089.54321 1.00000000  
94 792.172058 -1088.61401 1.00000000  
95 792.088196 -1087.68494 1.00000000  
96 792.004456 -1086.75574 0.00000000E+00  
97 791.920715 -1085.82666 0.00000000E+00  
98 791.753235 -1083.96826 0.00000000E+00  
99 792.558533 -1083.89575 1.00000000  
100 792.474670 -1082.96667 1.00000000  
101 791.585754 -1082.11023 0.00000000E+00  
102 792.390930 -1082.03760 1.00000000  
103 791.502014 -1081.18127 0.00000000E+00  
104 792.307068 -1081.10864 1.00000000  
105 791.418152 -1080.25220 1.00000000  
106 791.334412 -1079.32324 1.00000000  
107 790.445862 -1078.46667 0.00000000E+00  
108 791.250549 -1078.39417 1.00000000  
109 790.362244 -1077.53772 0.00000000E+00  
110 791.166931 -1077.46521 1.00000000  
111 790.278625 -1076.60876 0.00000000E+00  
112 790.194885 -1075.67993 0.00000000E+00  
113 790.111267 -1074.75098 1.00000000  
114 789.223206 -1073.89453 0.00000000E+00  
115 789.139709 -1072.96558 0.00000000E+00  
116 788.251770 -1072.10913 0.00000000E+00  
117 788.168274 -1071.18030 1.00000000  
118 787.280823 -1070.32373 0.00000000E+00  
119 786.393372 -1069.46704 0.00000000E+00  
120 785.506165 -1068.61035 0.00000000E+00

Surface Met Station UTM's (n,x,y):

Control-file POINT Sources : 1  
EMARB-file POINT Sources : 0  
Control-file AREA Sources : 0  
EMARB-file AREA Sources : 0  
Control-file LINE Sources : 0  
EMARB-file LINE Sources : 0  
Control-file VOLUME Sources: 0  
EMARB-file VOLUME Sources : 0

Source Names  
UNIT 3

---

## INPUT FILES

Default Name    Unit No.    File Name and Path

CALPOST.INP	5	CT_TECHE_01A_CACR.inp
MODEL.DAT	4	pu_teche_01a.flx

---

## OUTPUT FILES

Default Name    Unit No.    File Name and Path

CALPOST.LST	8	ct_teche_01a_cacr.lst
-------------	---	-----------------------

---

\*\*\*\*\*  
\*\*\*\*\*  
CALPOST Version 6.221      Level 080724  
\*\*\*\*\*  
\*\*\*\*\*

## 24HR VISIBILITY

### VISIB BOESNCFG

(1/Mega-m)

#### START TIME

#### Modeled Extinction by Species

Small Large SSalt

YEAR	DAY	HR	RECEPTOR	COORDINATES (km)	TYPE	BEXT(Model)	BEXT(BKG)	BEXT(Total)	%CHANGE	bxSO4	bxNO3	bxOC	bxEC	bxPMC	bxPMF	bxNO2	F(RH)	F(RH)	F(RH)	
2000	366	23	1	270.326 -617.519	D	0.000	22.185	22.185	0.00	0.000	0.000	0.000	0.000	0.000	3.880	2.790	3.930			
2001	1	23	1	270.326 -617.519	D	0.000	22.161	22.161	0.00	0.000	0.000	0.000	0.000	0.000	3.850	2.770	3.900			
2001	2	23	1	270.326 -617.519	D	0.000	22.161	22.161	0.00	0.000	0.000	0.000	0.000	0.000	3.850	2.770	3.900			
2001	3	23	1	270.326 -617.519	D	0.000	22.161	22.161	0.00	0.000	0.000	0.000	0.000	0.000	3.850	2.770	3.900			
2001	4	23	1	270.326 -617.519	D	0.000	22.161	22.161	0.00	0.000	0.000	0.000	0.000	0.000	3.850	2.770	3.900			
2001	5	23	1	270.326 -617.519	D	0.000	22.161	22.161	0.00	0.000	0.000	0.000	0.000	0.000	3.850	2.770	3.900			
2001	6	23	1	270.326 -617.519	D	0.000	22.161	22.161	0.00	0.000	0.000	0.000	0.000	0.000	3.850	2.770	3.900			
2001	7	23	1	270.326 -617.519	D	0.000	22.161	22.161	0.00	0.000	0.000	0.000	0.000	0.000	3.850	2.770	3.900			



























2001	236	23	9	272.589	-616.522	D	0.245	21.896	22.141	1.12	0.150	0.088	0.001
0.002	0.001	0.003	0.000	3.510	2.600	3.680	5						
2001	197	23	9	272.589	-616.522	D	0.241	21.881	22.123	1.10	0.143	0.092	0.001
0.002	0.001	0.003	0.000	3.490	2.590	3.690	6						
2001	43	23	3	271.855	-617.469	D	0.241	21.835	22.076	1.10	0.113	0.121	0.001
0.002	0.001	0.002	0.001	3.440	2.530	3.520	7						
2001	12	23	3	271.855	-617.469	D	0.236	22.161	22.397	1.07	0.090	0.139	0.001
0.002	0.001	0.002	0.002	3.850	2.770	3.900	8						
2001	281	23	18	260.302	-615.069	D	0.198	22.056	22.255	0.90	0.124	0.061	0.001
0.004	0.001	0.005	0.001	3.720	2.690	3.760	9						
2001	294	23	35	273.293	-614.653	D	0.194	22.056	22.250	0.88	0.079	0.109	0.001
0.002	0.001	0.002	0.000	3.720	2.690	3.760	10						
2001	325	23	3	271.855	-617.469	D	0.189	22.027	22.216	0.86	0.092	0.088	0.001
0.003	0.001	0.004	0.000	3.680	2.670	3.770	11						
2001	282	23	18	260.302	-615.069	D	0.185	22.056	22.241	0.84	0.073	0.102	0.001
0.003	0.001	0.003	0.002	3.720	2.690	3.760	12						
2001	177	23	18	260.302	-615.069	D	0.156	22.055	22.211	0.71	0.097	0.055	0.000
0.001	0.000	0.002	0.000	3.710	2.710	3.880	13						
2001	206	23	18	260.302	-615.069	D	0.142	21.881	22.023	0.65	0.092	0.047	0.000
0.001	0.000	0.002	0.000	3.490	2.590	3.690	14						
2001	27	23	18	260.302	-615.069	D	0.142	22.161	22.303	0.64	0.066	0.071	0.001
0.002	0.001	0.002	0.000	3.850	2.770	3.900	15						
2001	233	23	3	271.855	-617.469	D	0.133	21.896	22.028	0.61	0.082	0.047	0.000
0.001	0.000	0.002	0.000	3.510	2.600	3.680	16						
2001	303	23	3	271.855	-617.469	D	0.116	22.056	22.172	0.53	0.077	0.033	0.001
0.002	0.001	0.003	0.000	3.720	2.690	3.760	17						
2001	329	23	3	271.855	-617.469	D	0.115	22.027	22.142	0.52	0.035	0.076	0.000
0.001	0.000	0.002	0.000	3.680	2.670	3.770	18						
2001	234	23	35	273.293	-614.653	D	0.106	21.896	22.002	0.49	0.059	0.044	0.000
0.001	0.000	0.001	0.000	3.510	2.600	3.680	19						
2001	54	23	35	273.293	-614.653	D	0.107	21.835	21.942	0.49	0.041	0.061	0.000
0.001	0.000	0.002	0.001	3.440	2.530	3.520	20						
2001	292	23	35	273.293	-614.653	D	0.105	22.056	22.161	0.47	0.047	0.054	0.000
0.001	0.000	0.001	0.000	3.720	2.690	3.760	21						
2001	199	23	1	270.326	-617.519	D	0.102	21.881	21.983	0.47	0.071	0.028	0.000
0.001	0.000	0.001	0.000	3.490	2.590	3.690	22						

--- Number of days with Extinction Change => 5.0 % : 0

--- Number of days with Extinction Change => 10.0 % : 0

--- Largest Extinction Change = 1.35 %

\*\*\*\*\*

\*\*\*\*\*

CALPOST Version 6.221 Level 080724

\*\*\*\*\*

\*\*\*\*\*

Run-Length VISIBILITY

VISIB BOESNCFG

(1/Mega-m)

RECEPTOR COORDINATES (km) TYPE BEXT(Model) BEXT(BKG) BEXT(Total) %CHANGE

1 270.326 -617.519 D 0.018 21.955 21.973 0.08

--- Number of recs with Extinction Change > 1.0 % : 0

--- Largest Extinction Change = 0.08 %

\*\*\*\*\*

\*\*\*\*\*

CALPOST Version 6.221 Level 080724

\*\*\*\*\*

\*\*\*\*\*

## 24HR VISIBILITY

VISIB BOESNCFG

(deciview)

### START TIME

% of Modeled Extinction by Species

Small Large SSalt

YEAR	DAY	HR	RECEPTOR	COORDINATES (km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_NO2	F(RH)	F(RH)	F(RH)
2000	366	23	1	270.326 -617.519	D	7.968	7.968	0.000	0.00	0.00	0.00	0.00	0.00	0.00	3.880	2.790	3.930	
2001	123	1	270.326 -617.519	D	7.957	7.957	0.000	0.00	0.00	0.00	0.00	0.00	0.00	3.850	2.770	3.900		
2001	223	1	270.326 -617.519	D	7.957	7.957	0.000	0.00	0.00	0.00	0.00	0.00	0.00	3.850	2.770	3.900		
2001	323	1	270.326 -617.519	D	7.957	7.957	0.000	0.00	0.00	0.00	0.00	0.00	0.00	3.850	2.770	3.900		
2001	423	1	270.326 -617.519	D	7.957	7.957	0.000	0.00	0.00	0.00	0.00	0.00	0.00	3.850	2.770	3.900		
2001	523	1	270.326 -617.519	D	7.957	7.957	0.000	0.00	0.00	0.00	0.00	0.00	0.00	3.850	2.770	3.900		
2001	623	1	270.326 -617.519	D	7.957	7.957	0.000	0.00	0.00	0.00	0.00	0.00	0.00	3.850	2.770	3.900		
2001	723	1	270.326 -617.519	D	7.957	7.957	0.000	0.00	0.00	0.00	0.00	0.00	0.00	3.850	2.770	3.900		
2001	823	1	270.326 -617.519	D	7.957	7.957	0.000	0.00	0.00	0.00	0.00	0.00	0.00	3.850	2.770	3.900		
2001	923	1	270.326 -617.519	D	7.957	7.957	0.000	0.00	0.00	0.00	0.00	0.00	0.00	3.850	2.770	3.900		
2001	1023	18	260.302 -615.069	D	7.967	7.957	0.010	23.03	73.89	0.03	0.09	0.03	0.12	2.81	3.850	2.770	3.900	
2001	1123	1	270.326 -617.519	D	7.957	7.957	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.850	2.770	3.900	
2001	1223	3	271.855 -617.469	D	8.063	7.957	0.106	37.94	58.87	0.27	0.79	0.24	0.99	0.90	3.850	2.770	3.900	
2001	1323	9	272.589 -616.522	D	7.966	7.957	0.009	30.11	67.49	0.21	0.63	0.19						



























Year	Month	Day	Hour	Minutes	Seconds	Latitude	Longitude	Altitude	Type	7.982	7.897	0.086	48.78	46.45	0.56	1.63	0.49
2001	325	23	3	271.855	-617.469	D	7.982	7.897	0.086	48.78	46.45	0.56	1.63	0.49			
2.03	0.06	3.680	2.670	3.770	11												
2001	282	23	18	260.302	-615.069	D	7.994	7.910	0.083	39.73	55.10	0.49	1.43	0.43			
1.79	1.04	3.720	2.690	3.760	12												
2001	177	23	18	260.302	-615.069	D	7.980	7.910	0.071	62.42	35.13	0.29	0.85	0.26			
1.06	0.00	3.710	2.710	3.880	13												
2001	206	23	18	260.302	-615.069	D	7.895	7.830	0.065	64.61	32.79	0.31	0.90	0.27			
1.12	0.00	3.490	2.590	3.690	14												
2001	27	23	18	260.302	-615.069	D	8.021	7.957	0.064	46.51	49.67	0.43	1.26	0.38			
1.58	0.17	3.850	2.770	3.900	15												
2001	233	23	3	271.855	-617.469	D	7.897	7.837	0.060	61.81	35.20	0.36	1.03	0.31			
1.29	0.00	3.510	2.600	3.680	16												
2001	329	23	3	271.855	-617.469	D	7.949	7.897	0.052	30.21	66.03	0.43	1.24	0.37			
1.55	0.17	3.680	2.670	3.770	17												
2001	303	23	3	271.855	-617.469	D	7.963	7.910	0.052	66.26	28.47	0.63	1.82	0.55			
2.28	0.00	3.720	2.690	3.760	18												
2001	54	23	35	273.293	-614.653	D	7.858	7.809	0.049	38.57	57.28	0.42	1.23	0.37			
1.54	0.59	3.440	2.530	3.520	19												
2001	234	23	35	273.293	-614.653	D	7.886	7.837	0.048	55.64	41.53	0.34	0.98	0.30			
1.22	0.00	3.510	2.600	3.680	20												
2001	292	23	35	273.293	-614.653	D	7.957	7.910	0.047	45.13	51.73	0.37	1.08	0.33			
1.36	0.00	3.720	2.690	3.760	21												
2001	199	23	1	270.326	-617.519	D	7.877	7.830	0.046	69.77	27.44	0.33	0.96	0.29			
1.21	0.00	3.490	2.590	3.690	22												

--- Number of days with Delta-Deciview => 0.50: 0

--- Number of days with Delta-Deciview => 1.00: 0

--- Largest Delta-Deciview = 0.134

---

\*\*\*\*\*

CALPOST Version 6.221 Level 080724

\*\*\*\*\*

Run-Length VISIBILITY

VISIB BOESNCFG

(deciview)

RECEPTOR	COORDINATES (km)	TYPE	DV(Total)	DV(BKG)	DELTA DV
----------	------------------	------	-----------	---------	----------

1	270.326	-617.519	D	7.872	7.864	0.008
---	---------	----------	---	-------	-------	-------

--- Number of recs with Delta-Deciview > 0.10: 0

--- Largest Delta-Deciview = 0.008